

CERTIFICATE OF ANALYSIS

Product: Cetyl Alcohol

Lot No.: 16092A10121

Best Before: March, 2023

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	White solid pellets.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Acid Value:	< 0.1 mg KOH/g	0.02
Saponification Value:	< 0.5 mg KOH/g	0.12
Iodine Value:	< 0.1 gI ₂ /100g	0.00
Hydroxyl Value:	220 - 235 mg KOH/g	231
Carbonyl Value:	< 70.0 mg/Kg	13
Hydrocarbon:	< 0.4 %	0.25
Moisture:	< 0.1 %	0.03
C14:	< 1.0 %	0.00
C16:	> 98.0 %	98.99
C18:	< 1.0 %	0.39

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Cetyl Alcohol
 Lot No.: 16092A10520
 Best Before: January, 2023

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	White solid pellets.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Acid Value:	< 0.1 mg KOH/g	0.02
Saponification Value:	< 0.5 mg KOH/g	0.19
Iodine Value:	< 0.1 gI ₂ /100g	0.00
Hydroxyl Value:	220 - 235 mg KOH/g	230
Carbonyl Value:	< 70.0 mg/Kg	13
Hydrocarbon:	< 0.4 %	0.28
Moisture:	< 0.1 %	0.02
C14:	< 1.0 %	0.07
C16:	> 98.0 %	98.90
C18:	< 1.0 %	0.35

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CERTIFICATE OF ANALYSIS

Product: Cetyl Alcohol

Lot No.: 16092B11119

Best Before: May, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	White solid pellets.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Acid Value:	< 0.1 mg KOH/g	0.02
Saponification Value:	< 0.5 mg KOH/g	0.23
Iodine Value:	< 0.1 gI ₂ /100g	0.00
Hydroxyl Value:	220 - 235 mg KOH/g	230
Carbonyl Value:	< 70.0 mg/Kg	11
Hydrocarbon:	< 0.4 %	0.24
Moisture:	< 0.1 %	0.02
C14:	< 1.0 %	0.03
C16:	> 98.0 %	98.86
C18:	< 1.0 %	0.44

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CERTIFICATE OF ANALYSIS

Product: Cetyl Alcohol

Lot No.: 16092A10719

Best Before: April, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	White solid pellets.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Acid Value:	< 0.1 mg KOH/g	0.01
Saponification Value:	< 0.5 mg KOH/g	0.24
Iodine Value:	< 0.1 gI ₂ /100g	0.00
Hydroxyl Value:	220 - 235 mg KOH/g	231
Carbonyl Value:	< 70.0 mg/Kg	12
Hydrocarbon:	< 0.4 %	0.23
Moisture:	< 0.1 %	0.03
C14:	< 1.0 %	0.03
C16:	> 98.0 %	99.01
C18:	< 1.0 %	0.40

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CERTIFICATE OF ANALYSIS

Product: Cetyl Alcohol
 Lot No.: 16092A00119
 Best Before: September, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	White solid pellets.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Acid Value:	< 0.1 mg KOH/g	0.03
Saponification Value:	< 0.5 mg KOH/g	0.25
Iodine Value:	< 0.1 gI ₂ /100g	0.00
Hydroxyl Value:	220 - 235 mg KOH/g	231
Carbonyl Value:	< 70.0 mg/Kg	8
Hydrocarbon:	< 0.4 %	0.20
Moisture:	< 0.1 %	0.03
C14:	< 1.0 %	0.03
C16:	> 98.0 %	99.26
C18:	< 1.0 %	0.14

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CERTIFICATE OF ANALYSIS

Product: Cetyl Alcohol
 Lot No.: 16092-A22
 Best Before: December, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	White solid pellets.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Acid Value:	< 0.1 mg KOH/g	0.02
Saponification Value:	< 0.5 mg KOH/g	0.23
Iodine Value:	< 0.1 gI ₂ /100g	0.00
Hydroxyl Value:	220 - 235 mg KOH/g	231
Carbonyl Value:	< 70.0 mg/Kg	15
Hydrocarbon:	< 0.4 %	0.23
Moisture:	< 0.1 %	0.04
C14:	< 1.0 %	0.03
C16:	> 98.0 %	99.22
C18:	< 1.0 %	0.13

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CERTIFICATE OF ANALYSIS

Product: Cetyl Alcohol
Lot No.: 16092-A21
Best Before: September, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	White solid pellets.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Acid Value:	< 0.1 mg KOH/g	0.02
Saponification Value:	< 0.5 mg KOH/g	0.29
Iodine Value:	< 0.1 gI ₂ /100g	0.00
Hydroxyl Value:	220 - 235 mg KOH/g	230
Carbonyl Value:	< 70.0 mg/Kg	6
Hydrocarbon:	< 0.4 %	0.31
Moisture:	< 0.1 %	0.02
C14:	< 1.0 %	0.07
C16:	> 98.0 %	98.62
C18:	< 1.0 %	0.50

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CERTIFICATE OF ANALYSIS

Product: Cetyl Alcohol

Lot No.: 16092-A20

Best Before: June, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	White solid pellets.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Acid Value:	< 0.1 mg KOH/g	0.00
Saponification Value:	< 0.5 mg KOH/g	0.25
Iodine Value:	< 0.1 gI ₂ /100g	0.00
Hydroxyl Value:	220 - 235 mg KOH/g	230
Carbonyl Value:	< 70.0 mg/Kg	14.0
Hydrocarbon:	< 0.4 %	0.30
Moisture:	< 0.1 %	0.03
C14:	< 1.0 %	0.15
C16:	> 98.0 %	98.77
C18:	< 1.0 %	0.29

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CERTIFICATE OF ANALYSIS

Product: Cetyl Alcohol

Lot No.: 16092-A19

Best Before: June, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	White solid pellets.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Acid Value:	< 0.1 mg KOH/g	0.02
Saponification Value:	< 0.5 mg KOH/g	0.25
Iodine Value:	< 0.1 gI ₂ /100g	0.02
Hydroxyl Value:	220 - 235 mg KOH/g	231
Carbonyl Value:	< 70.0 mg/Kg	18.29
Hydrocarbon:	< 0.4 %	0.26
Moisture:	< 0.1 %	0.04
C14:	< 1.0 %	0.18
C16:	> 98.0 %	98.42
C18:	< 1.0 %	0.90

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